USGS science for a changing world

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M 6.7, EASTERN NEW GUINEA REG, PAPUA NEW GUINEA PAGER

Origin Time: Thu 2007-11-22 08:48:29 UTC

Location: 5.79°S 147.11°E Depth: 72 km

Version 2

Created: 5 days, 21 hrs after earthquake

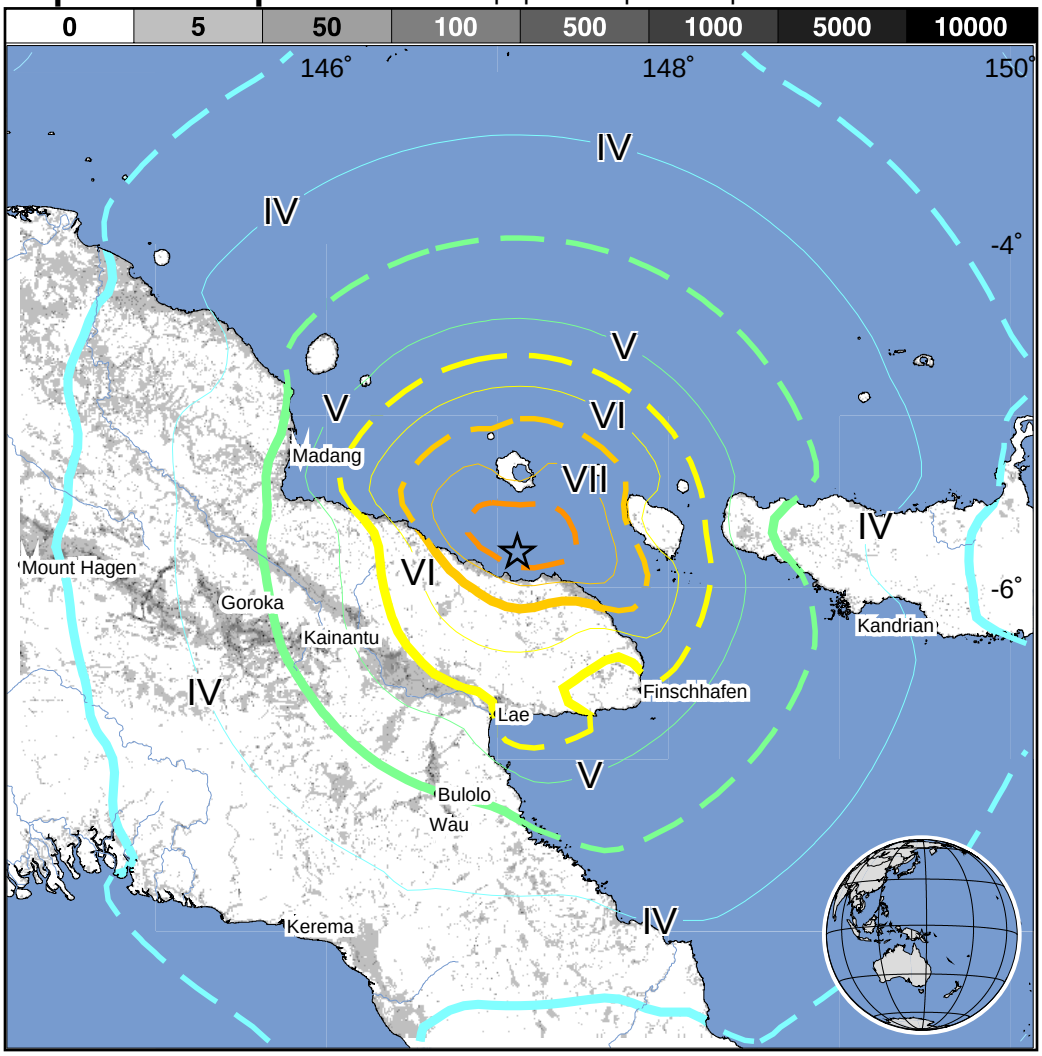
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	201k*	1,272k	565k	213k	31k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per ~1 sq. km from Landscan 2005



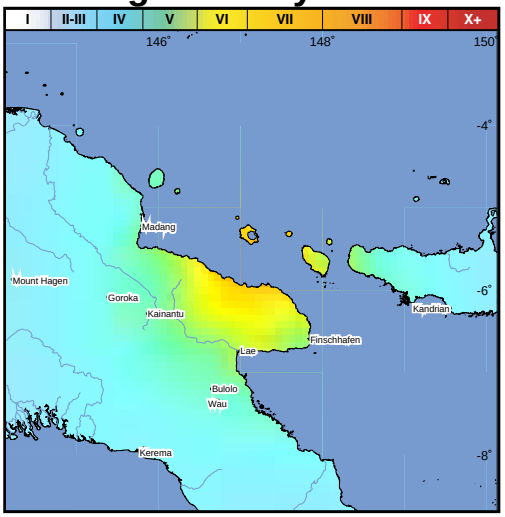
Selected City Exposure

MMI	City	Population
VI	Lae	76k
VI	Finschhafen	1k
V	Kainantu	8k
V	Madang	27k
IV	Bulolo	16k
IV	Wau	14k
IV	Goroka	18k
IV	Kundiawa	9k
IV	Kerema	5k
IV	Kandrian	1k
III	Mount Hagen	33k

bold cities appear on map (k = x1000)

Shaking Intensity

MMI



Users should consider the preliminary nature of this information and check for updates as additional data becomes available. Population exposure estimates are NOT a direct estimate of earthquake damage; comparable shaking will result in significantly lower losses in regions with well built structures than in regions with vulnerable structures. Overall, structures in this region are vulnerable to earthquake shaking, though some resistant structures exist. A magnitude 7.0 earthquake struck the Papua New Guinea region on July 17, 1998 (UTC), with estimated population exposures of 10,000 at intensity VIII and 31,000 at intensity VII, resulting in 2,700 deaths. Recent earthquakes in this area have also triggered landslide and liquefaction hazards that have contributed to losses.

This information was automatically generated and has not been reviewed by a seismologist.